



BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

BYATARAYANAPURA DIVISION

KODIGEHALLI SUB DIVISOIN

**Name of the Work: Providing and laying new road at
Sannegowda Layout and Surroundings
in Ward.No.08 Kodigehalli**

Estimated Cost : 40.00 Lakhs

Job Code : P-3111, SFC GRANTS 2017-18

Job No : 008-17- 000035



BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work :Providing and Laying new Road at Sonnégowda Layout and Surroundings in ward no 08Kodigehalli

Est Cost: =40 Lakhs									
Sl. No	Description of work	Unit	No.	Length	Breadth	Depth	Quantity	Rate in Rs.	Amount in Rs.
				m	m	m			
1	KSRRB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH / Chapter 3 (P.No.142, I.No.19.1 of PW, P&IWTD SR 2016-17)								
	sonnegowda layout	Cum							
	0-100 Rhs		1	100.00	0.50	0.45	22.50		
	Lhs		1	160.00	0.60	0.70	67.20		
	100-160 Rhs		1	60.00	0.60	0.70	25.20		
	parikrama school Road		2	125.00	0.50	0.45	56.25		
	c/s road near Parikrama school		2	50.00	0.50	0.45	22.50		
	c/s road behind Parikrama school		2	160.00	0.60	0.70	134.40		
	Culvert		3	6.50	2.00	1.00	39.00		
							367.05	186.92	68608.99
	Basic rate	82.00							
	Loading and unloading with 10km lead= 68+2.2x1.28x10 = 100	100.00							
	Area Weightage 6%	4.92							
	Final Rate	186.92							
2	Removing & Refixing Stone slabs of drains and Pointing in C.M(1:3) (P.No.25, I.No.5.33 of PW, P&IWTD SR 2016-17)								
	0-100 Rhs		1	100.00	1.35	--	135.00		
	parikrama school Road		2	125.00	1.35	--	337.50		
	c/s road near Parikrama school		2	50.00	1.35	--	135.00		
	consider 40% for R&R						189.00		
	Consider 20% Missing slabs and damaged slabs						-37.80		
	cover		2	40.00	1.2	--	96.00		
	parikrama school Road		2	92.00	1.2	--	220.80		
	consider 40% for R&R						126.72		
	consider 20% damage						-31.68		
							246.24	80.56	19837.09
	Basic rate	76.00							
	Area Weightage 6%	4.56							
	Final Rate	80.56							
3	Providing granite Slabs of Selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., Complete. 7.5cms thick (P.No.25, I.No.5.31.1 of PW, P&IWTD SR 2016-17)								
		Sqm							
	for missing damaged drain						37.80		
	for missing damaged cover						31.68		
	sonnegowda layout								
	Lhs		1	160.00	1.35	--	216.00		
	100-160 Rhs		1	60.00	1.35	--	81.00		
	c/s road behind Parikrama school		2	160.00	1.35	--	432.00		
							798.48	665.68	531532.17
	Basic rate	628.00							
	Area Weightage 6%	37.68							
	Final Rate	665.68							

Sl. No	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
4	KSRB 4-1.2: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No.4.2 of PW,P&IWT S.R 2016-17)								
	Bed Concrete	Cum							
	Culvert		3	6.5	2.0	0.15	5.85		
							5.85	5348.76	31290.25
5	KSRB 5.2-3: Providing and constructing granite size stone masonry in foundation cement mortar 1:6, stone hammered dressed in courses not less than 20cms high, bond stones at 2m. apart in each course including cost of materials, labour, curing complete as per specifications. Specification No. KBS 5.1.13. (P.No.23, I.No.5.6 of PW, P&IWT S.R 2016-17)								
	SSM Wall	Cum							
	Culvert		6	6.50	0.60	0.80	18.72		
							18.72	4438.22	83083.48
6	KSRB 15.1.1 Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. (P.No.113, I.No.15.1 of PW, P&IWT S.R 2016-17)								
	SSM Wall	Sqm							
	Culvert		6.00	6.50	--	0.80	31.20		
							31.20	102.82	3207.98
7	KSRB 4-1.6: Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No.4.6 of PW,P&IWT S.R 2016-17)								
	Coping	Cum							
	Culvert		6	6.50	0.60	0.10	2.34		
							2.34	5767.46	13495.86
8	Providing and fixing RCC Precast cover slab of 250mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	Cover Slab	Sqm							
	SSM Wall		3	6.50	1.80	--	35.10		
							35.10	5317.00	186626.70
9	KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications. MORTH Specification No.301 (P.No.143, I.No.19.14 of PW,P&IWT S.R 2016-17)								
	Road Portion	Cum							
	sonnegowda layout								
	0-100 Rhs		1	100.00	7.50	0.23	172.50		
	100-160 Rhs		1	60.00	7.40	0.23	102.12		
	parikrama school Road		5	1.20	0.95	0.23	1.31		
	c/s road near Parikrama school		3	3.00	1.35	0.23	2.79		
	c/s road behind Parikrama school		1	160.00	5.20	0.23	191.36		
							470.09	154.76	72750.43
	Basic rate	46.00							
	Loading and unloading with 10km lead= $68+2.2 \times 1.28 \times 10 = 100$	100.00							

Sl. No	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
	Area Weightage 6%	8.76							
	Final Rate	154.76							
10	KSRRB M 400-17, Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage ' of mixed Material by tipper to site, laying in uniform layers with paver in sub-base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density. complete as per specifications. MORTH Specification No. 406 (P.No.158,								
	Road Portion	Cum							
	0-100 Rhs		1	100.00	7.50	0.23	172.50		
	100-160 Rhs		1	60.00	7.40	0.23	102.12		
	parikrama school Road		8	1.20	0.95	0.23	2.10		
	c/s road near Parikrama school		4	3.00	1.35	0.23	3.73		
	c/s road behind Parikrama school		1	160.00	5.20	0.23	191.36		
							471.80	1768.08	834186.51
	Basic rate	1668.00							
	Area Weightage 6%	100.08							
	Final Rate	1768.08							
11	KSRRB M 500-6, Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kglsqm using mechanical means complete as per specifications. As per MORTH specification clause No. 502 (P.No.161, I.No.21.6 of PW,P&I WTD SR 2016-17)								
	Road Portion	sqm							
	sonnegowda layout								
	0-100 Rhs		1	100.00	7.50	--	750.00		
	100-160 Rhs		1	60.00	7.40	--	444.00		
	parikrama school Road		8	1.20	0.95	--	9.12		
	c/s road near Parikrama school		4	3.00	1.35	--	16.20		
	c/s road behind Parikrama school		1	160.00	5.20	--	832.00		
							2051.32	27.56	56534.38
	Basic rate	26.00							
	Area Weightage 6%	1.56							
	Final Rate	27.56							
12	KSRRB 500-2: Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Spec, Chapter 5 (P.No.161, I.No.21.2 of PW,P&I WTD SR 2016-17)								
	Road Portion	Sqm							
	parikrama school Road		1	125.00	6.20	--	775.00		
	c/s road near Parikrama school		1	50.00	5.00	--	250.00		
							1025.00		
	Deduct prime coat						-16.20		
							1008.80	3.18	3207.98
	Basic rate	3.00							
	Area Weightage 6%	0.18							
	Final Rate	3.18							
13	KSRRB M500-7 : Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH / Chapter 5 (P.No.161 I.No.21.7 of PW,P&I WTD SR of 2016-17)								
	For Laying DBM	Sqm							
	0-100 Rhs		1	100.00	7.50	--	750.00		
	100-160 Rhs		1	60.00	7.40	--	444.00		
	parikrama school Road		1	60.00	1.30	--	78.00		

Sl. No	Description of work	Unit	No.	Length	Breadth	Depth	Quantity	Rate in Rs.	Amount in Rs.
				m	m	m			
	c/s road near Parikrama school		1	16.00	1.50	--	24.00		
	For Laying BC								
	0-100 Rhs		1	100.00	7.50	--	750.00		
	100-160 Rhs		1	60.00	7.40	--	444.00		
	parikrama school Road		1	125.00	6.20	--	775.00		
	c/s road near Parikrama school		1	50.00	5.00	--	250.00		
	c/s road behind Parikrama school		1	160.00	5.20	--	832.00		
							4347.00	11.66	50686.02
	Basic rate	11.00							
	Area Weightage 6%	0.66							
	Final Rate	11.66							
14	KSRRB M500-16. Providing and laying dense bituminous macadam 50-75mm compacted thickness with 4.5% VG-30 Bitumen using 40/60 TPH capacity H.M.P, using crushed aggregates of grading II, premixed with VG 30 grade bituminous binder and transporting the hot mix to work site, laying with mechanical paver to the required grade level and alignment rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10, complete in all respects complete as per specification MORTH specification No. 507 (P.No.163 I.No. 21.17.6 of PW,P&IWT D S.R 2016-17)								
	sonnegowda layout	Cum							
	0-100 Rhs		1.00	100.00	7.50	0.05	37.50		
	100-160 Rhs		1.00	60.00	7.40	0.05	22.20		
	profile correction								
	parikrama school Road		1.00	60.00	1.30	0.05	3.90		
	c/s road near Parikrama school		1.00	16.00	1.50	0.05	1.20		
	c/s road behind Parikrama school		1.00	160.00	5.20	0.05	41.60		
							106.40	6284.74	668696.34
	Basic rate	5929.00							
	Area Weightage 6%	355.74							
	Final Rate	6284.74							
15	KSRRB M500-19. Providing and laying bituminous concrete 30-40 mm compacted thickness with VG30 Bitumen grade using 40-60 HMP using crushed aggregates of grading II, premixed with bituminous binder at 5.4% of mix and filler, transporting the hot mix to work site, laying with a mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 509 (P.No.165 of I.No.21.22.6 in PW,P&IWT D S.R 2016-17)								
	For Laying DBM	Cum							
	0-100 Rhs		1	100.00	7.50	0.040	30.00		
	100-160 Rhs		1	60.00	7.40	0.040	17.76		
	parikrama school Road		1.00	125.00	6.20	0.040	31.00		
	c/s road near Parikrama school		1.00	50.00	5.00	0.040	10.00		
	c/s road behind Parikrama school		1.00	160.00	5.20	0.040	33.28		
							122.04	7083.98	864528.92
	Basic rate	6683.00							
	Area Weightage 6%	400.98							
	Final Rate	7083.98							
16	KSRRB M800-13. Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803.(P.No.185, I.No.24.15 of PW,P&IWT D SR 2016-17)								
	Edge line		2	495.00	0.15	--	148.50		
							148.50	542.72	80593.92
	Basic rate	512.00							
	Area Weightage 6%	30.72							
	Final Rate	542.72							

